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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,489	07/16/2003	Minoru Igarashi	04208.0183	8855
7590	12/06/2004		EXAMINER	
Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 1300 I Street, N.W. Washington, DC 20005-3315				LE, THANH TAM T
				ART UNIT PAPER NUMBER
				2839

DATE MAILED: 12/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A7E

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/619,489	IGARASHI ET AL.	
	Examiner Thanh-Tam T. Le	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
 THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 27 October 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1,3,4 and 7-13 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1, 3-4, 7-13 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Kajinuma (6,132,258).

Regarding claims 1 and 10, Kajinuma, figures 1, 5, 9 and 11-14, discloses a connector for connecting circuit boards with each other, comprising:

- a first connector section (22) disposed on a first circuit board and having contact terminals (24) electrically connected to an electro-conductive layer of the first circuit board; and
- a second connector section (12) disposed on a second circuit board and having terminals (14) electrically connected to an electro-conductive layer of the second circuit board;

wherein when the first connector section is coupled to the second connector section, non-elastic metallic engaging portions (26c) provided in the first connector section are engaged with elastic metallic portions (16c) provided in the second connector section to hold the first connector section on the second connector section and a recess (12a, figure 9) is formed for allowing a portion being engaged in the second connector section to advance/retract at a base of the second connector section.

Regarding claim 7, the engaging portions of the first connector section are embedded in one piece and fixed in a base (36) of the first connector section.

3. Claims 3-4, 8-9 and 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Elicker et al. (5,183,405).

Regarding claims 9 and 11, Elicker et al., figures 1 and 6, disclose a connector for connecting circuit boards with each other, comprising:

- a first connector section (12) disposed on a first circuit board and having contact terminals (34) electrically connected to an electro-conductive layer of the first circuit board; and
- a second connector section (52) disposed on a second circuit board and having terminals (74) electrically connected to an electro-conductive layer of the second circuit board;

wherein when the first connector section is coupled to the second connector section, non-elastic metallic engaging portions (42), which are nibs, provided in the first connector section are engaged with elastic metallic portions (87), which are projections, provided in the second connector section to hold the first connector section on the second connector section, the first connector section having leg portions fixed to the first circuit board and the second connector section having leg portion fixed to the second circuit board.

Regarding claim 3, the metallic holding fixture is formed in a thin sheet-like form separately from a base for supporting the contact terminals in the second connector section.

Regarding claim 4, the metallic holding fixture having legs (90) fixed to the second printed circuit board.

Regarding claim 8, the engaging portions of the first connector section are embedded in one piece and fixed in a base of the first connector section.

Regarding claims 12 and 13, figure 1, a recess (68) is formed for allowing a portion being engaged in the second connector section to advance/retract at a base of the second connector section.

### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

6. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL  
11/30/04.



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T. Le